



**ARIZONA DEPARTMENT OF PUBLIC
SAFETY**
Wireless Systems Bureau



Arizona Interoperable Radio System

A.I.R.S.

Presented By
Greg Manning
Telecommunications Project Manager



I.A.R.S. IMPLEMENTATION

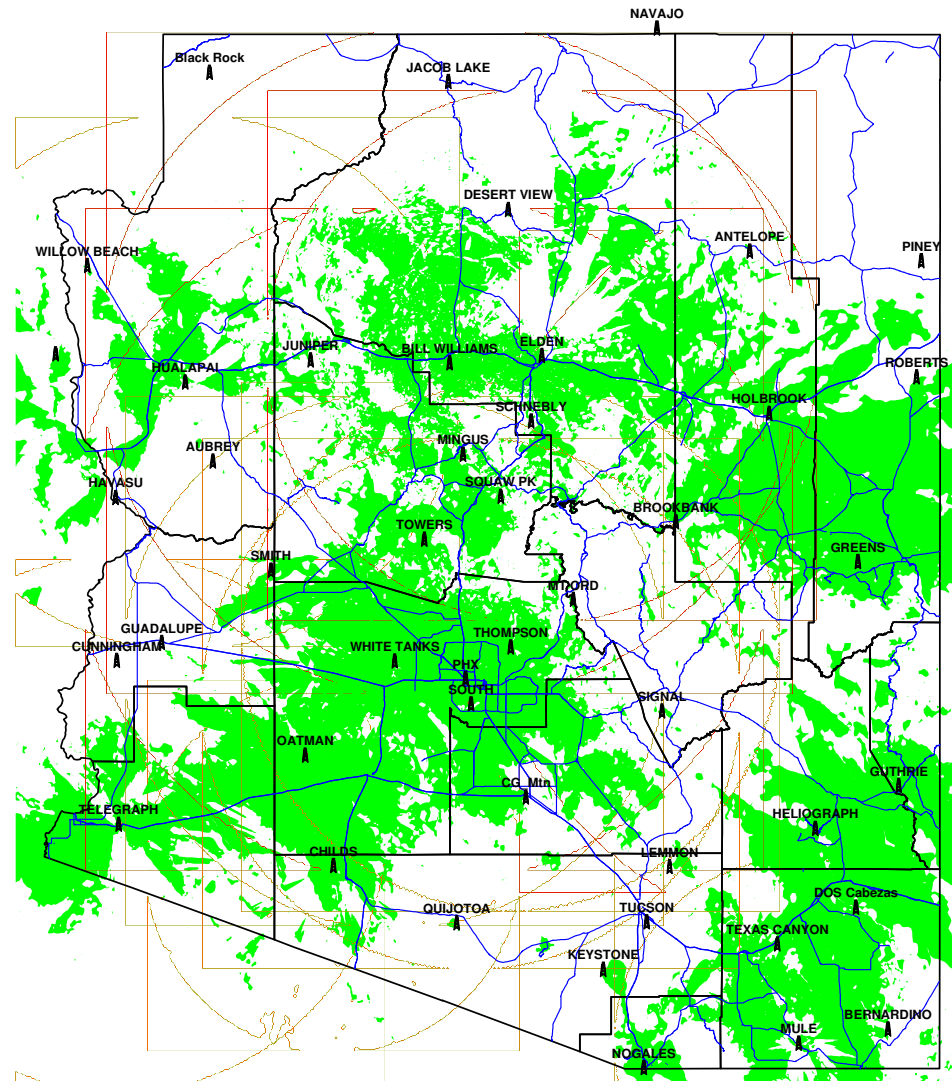


- Mid – Late 70s ***Interagency Arizona Radio System***
- VHF & UHF Base Stations at Key locations
- Each radio controlled at a Dispatch Center
- Linked allowing DPS to talk to VHF Users
- 15 sites were in operation by 1999

IARS Coverage as of 1999

South Mountain
White Tanks
Thompson Peak
Towers Mt
Greens Peak
Mule Mountain
Mount Elden
Bill Williams
Mountain
Heliograph Peak
Guthrie Peak
Hualapai Mountain
Nogales Hill
Telegraph Pass
Oatman Mountain
Childs Mountain

IARS RADIO COVERAGE





I.A.R.S. Modernization & Expansion



2006 Brought Modernization and Expansion

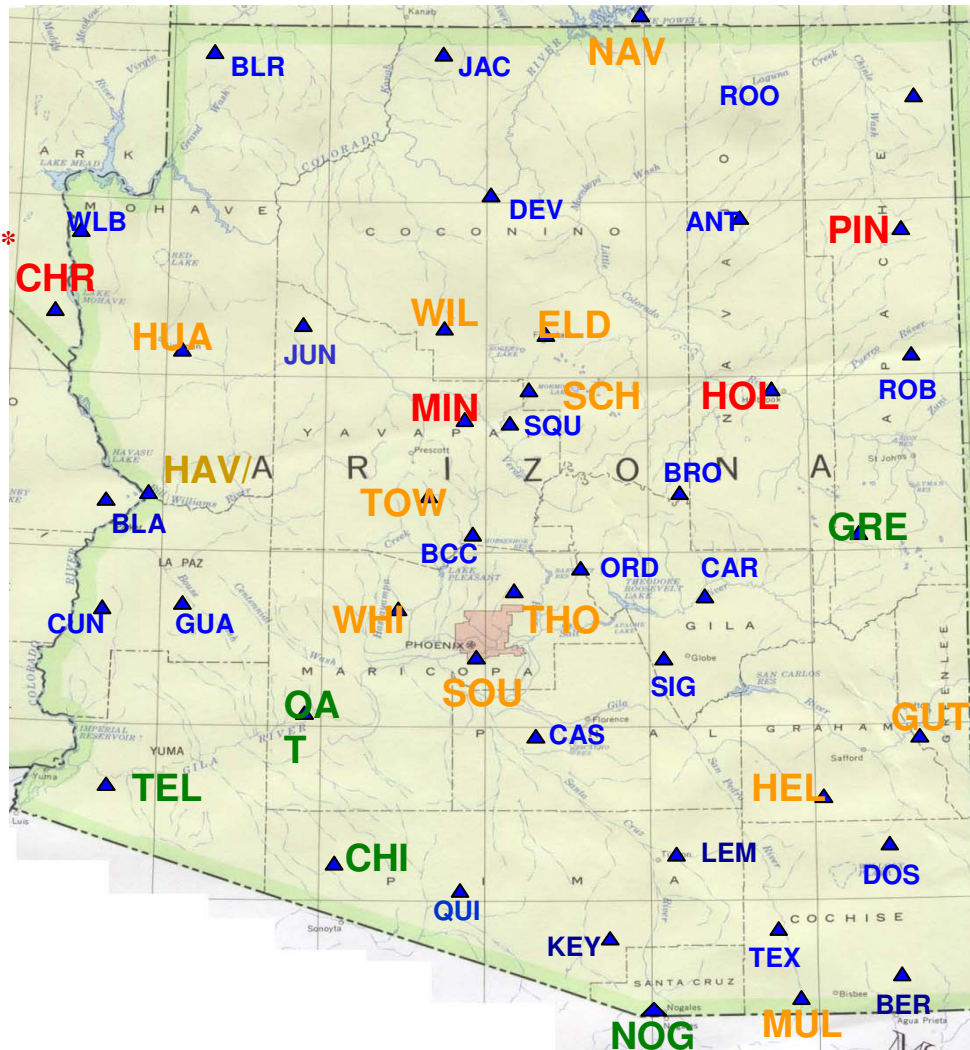
Arizona Interoperable Radio System - A.I.R.S.

- Funding Assistance from the Homeland Security Grant
- Modernizing to a “suite” of Radio Repeaters
 - VHF Radio Repeater
 - UHF Radio Repeater
 - 800 MHz Radio Repeater
- Expanded to 45 Potential Sites for A.I.R.S.



ANT – Antelope Mesa
BER – Bernardino
BLA – Black Metal
BCC – Black Canyon City*
BLR – Black Rock
BRO – Brookbank Pt.
CAR – Carol Springs
CGM – Casa Grande*
CHI – Childs Mtn.
CHR – Christmas Tree
CUN – Cunningham
DEV – Desert View
DOS – Dos Cabezas
ELD – Mt. Elden
GRE – Greens Pk.
GUA – Guadalupe
GUT – Guthrie
HEL – Heliograph
HOL – Holbrook DPS
HUA – Hualapai
JAC – Jacob Lake
JUN – Juniper

* New Sites



PROPOSED SITES

KEY – Keystone
LEM – Mt Lemmon
MIN – Mingus Mtn
MUL – Mule Mtn.
NAV – Navajo
NOG – Nogales Hill
OAT – Oatman
ORD – Mt Ord
PIN – Piney Hill
QUI - Quijotoa
ROB – Roberts Ranch
ROO – Roof Butte
SCH – Schnebly
SIG – Signal Peak
SOU – South Mtn
SQU – Squaw Peak
TEL – Telegraph
TEX – Texas Canyon
THO – Thompson Peak
TOW – Towers
WHI – White Tanks
WIL – Bill Williams
WLB – Willow Beach



A.I.R.S. 2007 Activities



In 2007, the list of 45 was trimmed to 38 proposed sites

AZ Div of Emergency Management purchased 38 Suites

By the end of 2007 16 Suites remained

Planned Locations for remaining 16 Suites:

Brookbank

Dos Cabezas

Carol Springs

Quijotoa

Lake Havasu

Juniper

Roberts Ranch

Black Canyon City

Desert View

Roof Butte

(La Paz County)

Squaw Peak

Black Rock

Jacob Lake

Antelope Mesa

Mingus Mt

Mohave County Sheriff's Office purchased a suite for it's Aubry Peak Site. A new communication shelter is required at Aubry Peak. Once completed, DPS agreed to perform the installation.

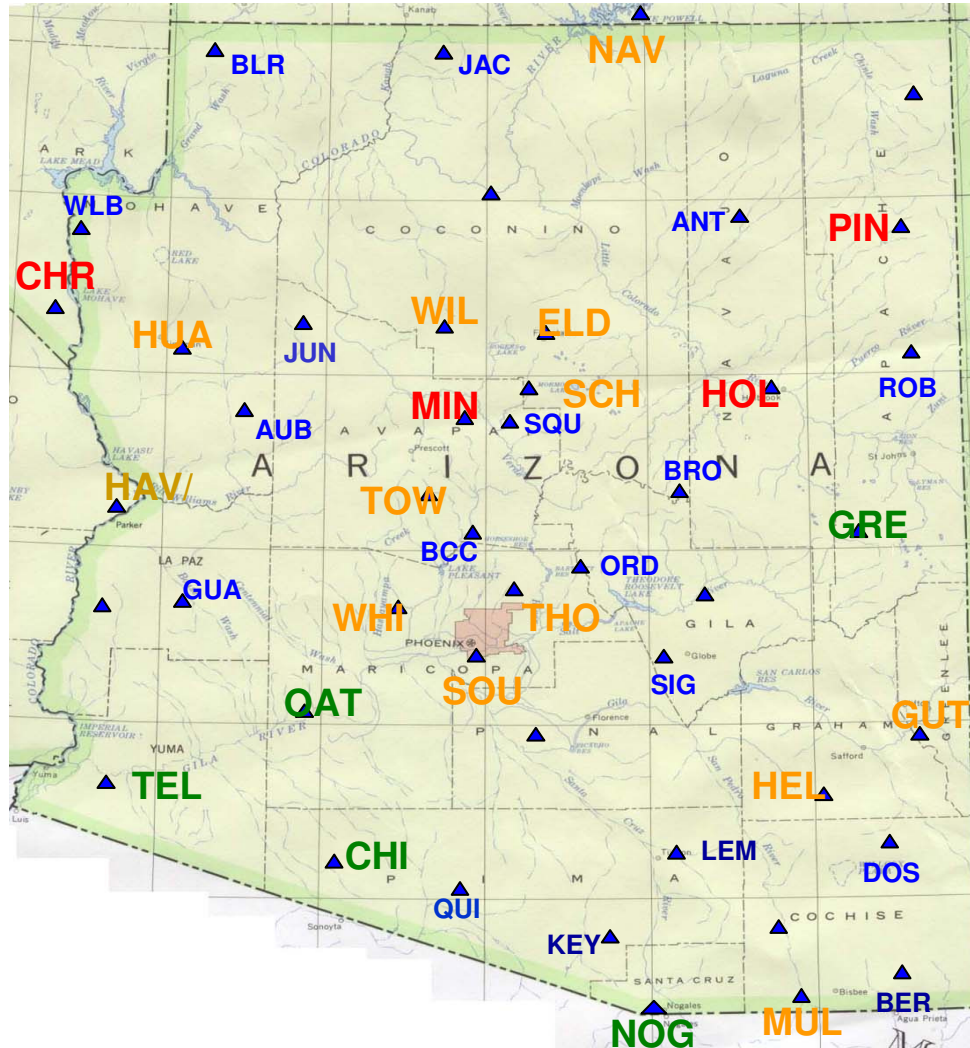


2007 A.I.R.S. SITE PROPOSALS



PROPOSED SITES

ANT – Antelope Mesa
AUB – Aubrey Peak
BER - Bernardino
BLR – Black Rock
BRO – Brookbank Pt.
CHI – Childs Mtn.
CHR – Christmas Tree
ELD – Mt. Elden
GRE – Greens Pk.
GUT – Guthrie
HAV – Lake Havasu
HEL – Heliograph
HOL – Holbrook DPS
HUA – Hualapai
JAC – Jacob Lake
JUN – Juniper
KEY – Keystone
LEM – Mt Lemmon



PROPOSED SITES

MIN – Mingus Mtn
MUL – Mule Mtn.
NAV – Navajo
NOG – Nogales Hill
OAT – Oatman
ORD – Mt Ord
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QUI - Quijotoa
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DPS Trailer (Mobile)



A.I.R.S.

2008 Installation Activities



Planned Locations Relocated:

<u>Suite for</u>	<u>Reason</u>	<u>Relocated To</u>
Dos Cabezas	No DPS Site	Cunningham Peak
Black Canyon City	No Site	MCSO – Thompson Pk
Carol Springs	Impractical Location	MCSO – White Tanks
Desert View	No Room at Site	DPS Mobile Trailer
Roof Butte	No Room at Site	Mount Ord



October 22, 2008

WHITE TANKS

MCSO

COMMUNICATIONS

SHELTER

FIRE



A.I.R.S. 2008 Activities



In 2008, to Date DPS has installed 11 A.I.R.S. Suites.

- A mobile A.I.R.S. configuration in a DPS Trailer



A.I.R.S. DPS MOBILE A.I.R.S.



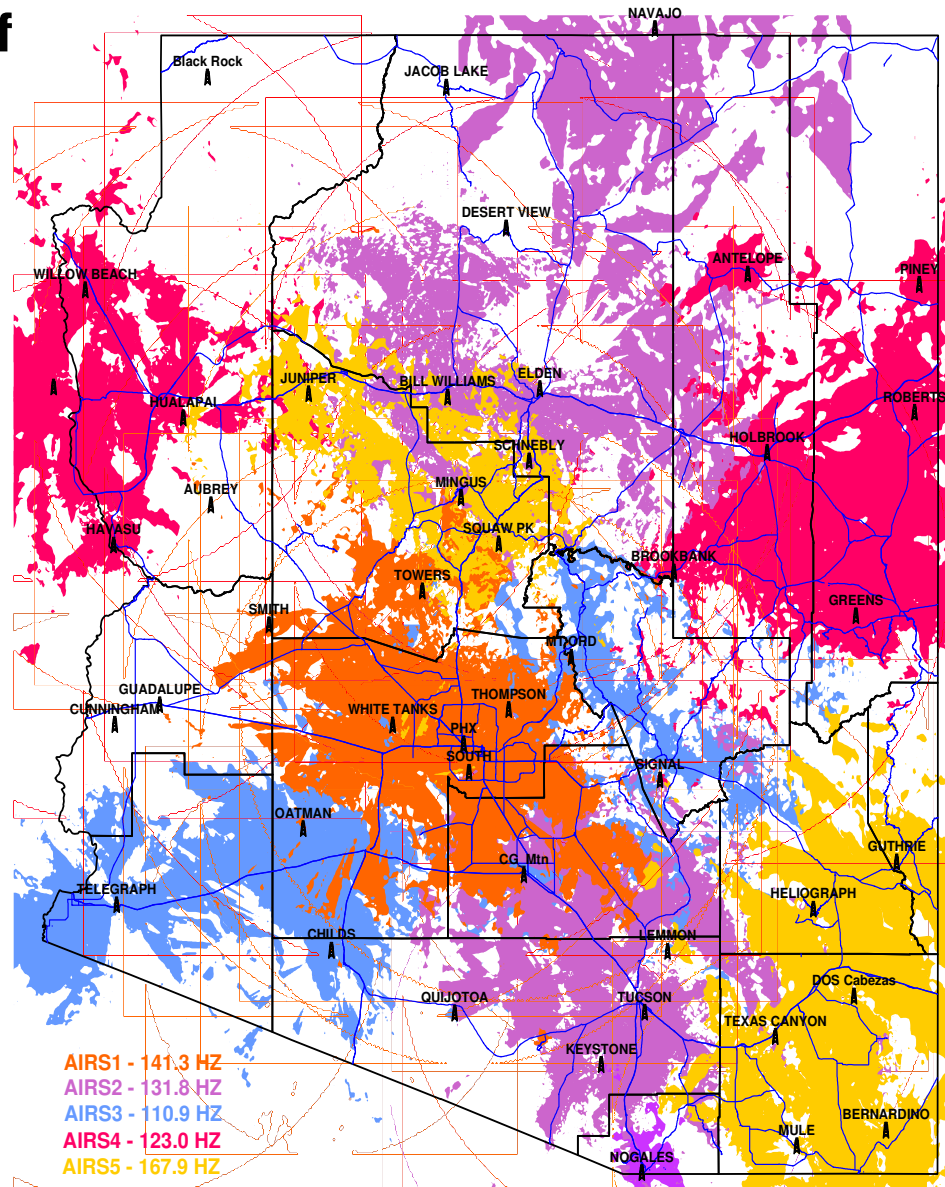


A.I.R.S. DPS MOBILE A.I.R.S.



A.I.R.S. Coverage as of 2008

AIRS REGIONAL RADIO COVERAGE





A.I.R.S. Planned Installation (Future Activities)



Planned and Future Installation Activities include

- 4 Remaining AIRS Suites.
 - Jacob Lake
 - Black Rock
 - Cunningham Peak
 - Quijotoa
- State EOC Microwave Link to the A.I.R.S.



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QUESTIONS?

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